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Please amend the claims as follows:

BEST AVAILABLE COPY (Amended) A flexible spine stabilization system comprising:

a first rod having a first end portion and a second end portion;

a first flexible element having at least a first slit formed therein, wherein said first flexible element is disposed between the first and second end portions, wherein a the first flexible element is integrally formed between said first and second rod portions, and wherein the first flexible element permits motion of the first end portion relative to the second end portion;

a first fastener capable of connecting with the first end portion; and

a second fastener capable of connecting with the second end portion;

wherein the first and second fasteness are capable of socurely disposing the first rod at least partially between the exterior of a first vertebra and a second vertebra such that the spine stabilization system is capable of permitting limited movement of the first vertebra relative to the second vertebra.

- (Original) The flexible spine stabilization system of claim 1, wherein the first end portion 2. and the second end portions of the first rod comprise a tubular structure.
- (Original) The flexible spine stabilization system of claim 1, wherein the first end portion and the second end portions of the first rod are substantially solid.
- (Original) The flexible spine stabilization system of claim 1, wherein the slit in the first flexible element forms a helical pattern around a portion of the first rod.
- (Original) The flexible spine stabilization system of claim 3, wherein the first flexible element is curved in the neutral position to accommodate the fordosis in the spine.
- (Original) The flexible spine stabilization system of claim 3, wherein the first flexible clement funits motion of the first end portion relative to the second end portion from about 1" to about 30° in all planes.

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- 7. (Original) The flexible spine stabilization system of claim 3, wherein the first flexible element limits motion of the first end portion relative to the second end portion from about 0° to about 3" in all planes.
- 6. (Original) The flexible spine stabilization system of claim 5, wherein the first flexible element limits rotation of the first end portion relative to the second end portion from about 1° to about 30°.
- Unighal) The Mexible spine Stabilization system of claim 8, wherein the first tiexible element limits rotation of the first end portion relative to the second end portion from about 1° to about 5°.
- 10. (Original) The flexible spine stabilization system of claim 3, wherein the first flexible element limits rotation of the first and portion relative to the second and portion from about 0° to about 3°.
- 11. (Original) The liexible spine stabilization system of claim 10, wherein the first flexible element prevents rotation of the first end portion relative to the second end portion.
- 12. (Original) The flexible spine stabilization system of claim 3, wherein the first flexible element limits flexion-extension of the first end portion relative to the second end portion from about 0° to about 30°.
- 13. (Original) The flexible spine stabilization system of claim 12, wherein the first flexible element limits flexion-extension of the first end portion relative to the second and portion from about 0° to about 3°.
- 14. (Original) The flexible spine stabilization system of claim 13, wherein the first flexible element limits flexion-extension of the first end portion relative to the second end portion from about 3° to about 30°.

- 15. (Original) The nextble spine stabilization system of claim 3, wherein the first flexible element limits lateral hending of the first and portion relative to the second and portion from about 5 to about 30.
- 16. (Original) The flexible spine stabilization system of claim 15, wherein the first flexible element limits lateral banding of the first and parties relative to the eccount and parties from about 0° to about 3°.
- 16. (Original) The flexible spine stabilization system of claim 15, wherein the first flexible element limits lateral bending of the first end portion relative to the second end portion from about 3° to about 30°.
- 17. (Original) The flexible spine stabilization system of claim 1, wherein the first flexible element timits axist compression or the first end portion relative to the second end portion from about 0 mm to about 7 mm
- 18. (Original) The flexible spine stabilization system of aloim 17, wherein the first flexible element limits axial compression of the first end portion relative to the second end portion from about 0.5 mm to obout 7 mm.
- 19. (Original) The flexible spine atabilization system of claim 18, wherein the first flexible element limits axial compression of the first end portion relative to the second end portion from about 5 mm to about 1 mm.
- 20. (Original) The tiexible spitte stabilization system of claim 19, wherein the depth of the first slit is from about 20 percent to about 99 percent of the radius of the rad
- 21. (Original) The flexible spine stabilization system of claim 20, wherein the depth of the first slit is from about 50 percent to about 80 percent of the radius of the rod.

- 23. (Original) The flexible spine stabilization system of claim 1, wherein the first flexible element further comprises a second shif formed therein.
- 23. (Original) The flexible spine stabilization system of claim 22, wherein the first slit and the second alit in the first flexible element form belical patterns around a portion of the first rod.
- 24. (Original) The flexible spins stabilization system of claim 23, wherein at least a portion of the first slit and the second slit are disposed in the same location on the first rod.
- 25. (Original) The flexible spine stabilization system of claim 23, wherein the direction of the helical pattern of the first slit is the same as the direction of the helical pattern of the second slit.
- 26. (Original) The fiexible spine stabilization system of claim 23, wherein the direction of the helical pattern of the first alit is opposite from the direction of the helical pattern of the second slit.
- 27. (Original) The flexible spine stabilization system of claim 1, wherein the first flexible element forms at least a portion of a transconnector that connects two longitudinal rods.
- 28. (Original) The flexible spine stabilization system of claim 1, wherein the first and second fasteners are bone fasteners.
- 29: (Original) The flexible spine stabilization system of claim 1, wherein the first slit formed in the first flexible element entends completely through the red.
- 30. (Original) The flexible spine stabilization system of claim 1, wherein the depth of the first slit is from about 20 percent to about 95 percent of the radius of the rod.
- 31. (Original) The flexible spine stabilization system of claim 30, wherein the depth of the first elit is from about 50 percent to about 50 percent of the radius of the rad.

Please add the following new claims:

32. (new) The flexible spine stabilization system of claim 1, further comprising: a second rod having a faird end portion and a fourth end portion;

a second flexible element having at least a first slit formed therein, wherein said second flexible element is disposed between the third and fourth end portions, wherein the second flexible element is integrally formed between said third and fourth rod portions, and wherein the second flexible element permits motion of the third end portion relative to the fourth end portion;

wherein the second rod is at least partially disposed between the exterior of the first vertebra and second vertebra.

- 33. (new) The flexible spine stabilization system of claim 32, wherein the first and second rods permit limited movement of the first vertebra relative to the second vertebra in the anterior-posterior direction and substantially restrict lateral bending.
- 34. (new) The flexible spine stabilization system of claim 1, further comprising a third fastener capable of connecting with a portion of the first rod, and wherein the third fastener is capable of securely disposing the first rod at least partially between the exterior of the second vertebra and a third vertebra.
- 35. (new) The flexible spine stabilization system of claim 34, wherein the portion of the first fod disposed between the second vertebra and the third vertebra substantially restricts movement of the second vertebra relative to the third vertebra.
- 36. (new) The flexible spine stabilization system of claim 35, wherein the first flexible element permits limited movement of the first vertebra relative to the second vertebra in the anterior-posterior direction and substantially restricts lateral bending.
- 37. (new) The flexible spine stabilization system of claim 34, wherein the portion of the first red disposed between the second vertebra and the third vertebra is capable of permitting limited movement of the second vertebra relative to the third vertebra.

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38 (new) The flexible spine stabilization system of claim 1; wherein the first fastener is a podicle screw partially disposed in the first vertebra.

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